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Pending Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

- 1. (Previously Presented): A light-emitting diode, comprising
- a semiconductor layer structure including a substrate and at least one light-generating layer formed on said substrate and one transparent current-spreading layer deposited on said light-generating layer, the top surface of said current-spreading layer has vertical structuring to improve the decoupling of light,
 - a first electrical contact layer on the back of said substrate, and
- a second electrical contact layer comprising a lateral structure by means of which substantially uniform coupling of electrical current into said current-spreading layer can be achieved, said lateral structure comprising a central contact surface that is directly deposited on said current-spreading layer.
- 2. (Previously presented): The light-emitting diode as described in claim 1, characterized in that
- said second electrical contact layer is a central contact surface and, arranged about said central contact surface, a contact structure that is rotationally symmetrical with respect to the center point of said central contact surface and is composed of relatively narrow contact webs and/or contact points.
- 3. (Previously presented): The light-emitting diode as described in claim 2, characterized in that
 - the rotational symmetry is a symmetry represented by a whole number.

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4. (Previously presented): The light-emitting diode as described in claim 1, characterized in that said second electrical contact layer is realized as continuous.

- 5. (Previously presented): The light-emitting diode as described in claim 1, characterized in that
- said second electrical contact layer is discontinuous and is interconnected by a layer of transparent, light-conducting material.
- 6. (Previously presented): The light-emitting diode as described in claim 1, characterized in that said second electrical contact layer is arranged on structured and/or unstructured portions of said current-spreading layer.
- 7. (Previously Presented): The light-emitting diode as described in claim 1, characterized in that
- the vertical structuring is in the form of n-sided (n > 3) pyramids or frusta of pyramids cones or frusta of cones.
- 8. (Previously presented): A method for fabricating a light-emitting diode as described in claim 1, characterized in that
- a light-generating layer and thereafter a relatively thick and transparent currentspreading layer are deposited on a substrate and the back of said substrate is provided with a first electrical contact layer,
- vertical structuring to improve the decoupling of light is produced in the surface of said current-spreading layer,
- a second electrical contact layer having the desired lateral structure is deposited on the structured top surface of said current-spreading layer.

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9. (Previously presented): The method for fabricating a light-emitting diode as described in claim 1, characterized in that

- a light-generating layer and thereafter a relatively thick and transparent currentspreading layer are deposited on a substrate and the back of said substrate is provided with a first electrical contact layer,
- a second electrical contact layer having the desired lateral structure is deposited on the top surface of said current-spreading layer, and
- vertical structuring to improve the decoupling of light is produced in the top surface of said current-spreading layer outside the areas of said second electrical contact layer.
- 10. (Previously presented): The light emitting diode of claim 2 wherein said central contact surface is a circular contact surface.
- 11. (Previously presented): The light emitting diode of claim 2 wherein said central contact surface is a square contact surface.
- 12. (Previously presented): The light emitting diode of claim 3 wherein said rotational symmetry matches the rotational symmetry of the light-emitting diode.
- 13. (Previously presented): The light emitting diode of claim 7 wherein said n-sided (n > 3) pyramids or frusta of pyramids, cones or frusta of cones are regularly arranged.
 - 14. (Previously Presented): A light-emitting diode, comprising
- a semiconductor layer structure including a substrate and at least one light-generating layer formed on said substrate and one transparent current-spreading layer deposited on said light-generating layer, the top surface of said current-spreading layer has vertical structuring to improve the decoupling of light,
 - a first electrical contact layer on the back of said substrate, and

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- a second electrical contact layer comprising a lateral structure by means of which substantially uniform coupling of electrical current into said current-spreading layer can be achieved,

wherein said lateral structure comprises a central contact structure and a circumferential contact web arranged about the central contact structure, wherein the central contact structure is directly deposited on said current-spreading layer.

- 15. (Previously Presented): The light-emitting diode as described in claim 1, characterized in that
 - the vertical structuring is in the form of cones or frusta of cones.
- 16. (Previously Presented): The light emitting diode of claim 15 wherein said cones or frusta of cones are regularly arranged.
- 17. (Previously Presented) The light emitting diode of claim 1 wherein said lateral structure of said contact layer extends over and directly contacts said vertical structuring of said current-spreading layer.
- 18. (Previously Presented) The light emitting diode of claim 14 wherein said lateral structure of said contact layer extends over and directly contacts said vertical structuring of said current-spreading layer.
- 19. (Previously Presented) The light-emitting diode of claim 1, wherein the lateral structure is directly deposited on the current-spreading layer.
- 20. (Previously Presented) The light-emitting diode of claim 14, wherein the central contact structure and the circumferential contact web are directly deposited on the current-spreading layer.

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21. (Previously Presented): A light-emitting diode, comprising

- a semiconductor layer structure including a substrate and at least one light-generating layer formed on said substrate and one transparent current-spreading layer deposited on said light-generating layer, the top surface of said current-spreading layer has vertical structuring to improve the decoupling of light,

- a first electrical contact layer on the back of said substrate, and
- a second electrical contact layer comprising a lateral structure by means of which substantially uniform coupling of electrical current into said current-spreading layer can be achieved, wherein said substantially uniform coupling includes coupling of electrical current through the middle of the current spreading layer.
 - 22. (Previously Presented): A light-emitting diode, comprising
- a semiconductor layer structure including a substrate and at least one light-generating layer formed on said substrate and one transparent current-spreading layer deposited on said light-generating layer, the top surface of said current-spreading layer has vertical structuring to improve the decoupling of light,
 - a first electrical contact layer on the back of said substrate,
- a second electrical contact layer comprising a lateral structure by means of which substantially uniform coupling of electrical current into said current-spreading layer can be achieved, wherein the second electrical contact layer comprises discontinuous portions, and
- a layer of transparent, light-conducting material deposited on the second electrical contact layer to interconnect the discontinuous portions of the second electrical contact layer.
- 23. (Previously Presented) The light-emitting diode of claim 22, wherein the transparent, light-conducting material comprises indium tin oxide.
- 24. (Previously Presented) The light-emitting diode of claim 22, wherein the lateral structure is directly deposited on the current spreading layer.